DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-008688 Address: 333 Burma Road **Date Inspected:** 23-Aug-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: Lv Li Qing / Shen Fu You **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** OBG Assembly

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector, Tim McClendon was present during the time noted above for observations relative to the work being performed.

This QA Inspector randomly observed the following work in progress:

OBG Bay No. 14

This Quality Assurance Inspector (QA) observed that the contractor has removed base metal on deck panel diaphragm on assembly 9AE SEG 050 SSD19 PP73 weld number 004. There are twenty - one (21) locations where ZPMC found tacks with crack like linear indications on all or part of the 21 tack welds, using the magnetic particle (MT) inspection method. In an attempt to remove these tack welds using air carbon arc gouging a large portion of base metal was removed (minimum 4mm / maximum 10mm) on all 21 areas. An Incident report will be written on this issue. See photographs for more information.

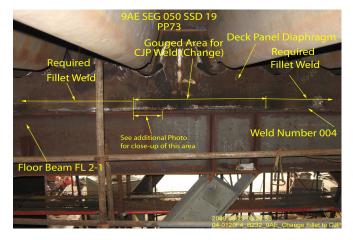
This Quality Assurance Inspector (QA) observed that the contractor appears to have deviated from the weld joint design specified on the approved drawings. The contractor appears to have changed the weld joint from a Fillet Weld to a Complete Joint Penetration (CJP) weld with a backing weld. This deviation was performed without the Engineers approval. According to the ZPMC QC inspector, the weld design was changed in order to compensate for a joint root opening in excess of 5mm. This condition exists in the following locations; OBG segment 9AE @ PP072 for weld joining SEG 050 SSD19 PP72 weld 004/005 and OBG segment 9AE @ PP073 for weld joining SEG 050 SSD19 PP73 weld 004/005. An incident report will be written on this issue.

WELDING INSPECTION REPORT

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Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.







Summary of Conversations:

No relevant conversations spoken on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (15000422372), who represents the Office of Structural Materials for your project.

Inspected By:	McClendon, Timothy	Quality Assurance Inspector
Reviewed By:	Patterson,Rodney	QA Reviewer